Notice of Allowability	Application No.	Applicant(s)		
	09/674,254			
	Examiner	Art Unit		
	Ginny Portner	1645		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in ( ) or other appropriate commur RIGHTS. This application is su	this application. If not includ nication will be mailed in due	led course. <b>THIS</b>	
1. This communication is responsive to <u>12/8/06</u> .				
2. X The allowed claim(s) is/are 70,79; now claims 1-2.	•	•		
<ol> <li>Acknowledgment is made of a claim for foreign priority units a)</li> <li>All b)</li> <li>Some* c)</li> <li>None of the:</li> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol>	e been received. e been received in Application	No	ation from the	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a MENT of this application.	a reply complying with the re	quirements	
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>			NOTICE OF	
5. 🔲 CORRECTED DRAWINGS ( as "replacement sheets") mu	st be submitted.			
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Review	(PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	<u>.</u> .	•		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or in	n the Office action of		
Identifying indicia such as the application number (see 37 CFR teach sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the the header according to 37 CFR	drawings in the front (not the 1.121(d).	e back) of	
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>	osit of BIOLOGICAL MATER FOR THE DEPOSIT OF BIOL	RIAL must be submitted. I OGICAL MATERIAL.	Note the	
			•	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	E - Nation of late	one of Defect Assettentia		
<ol> <li>Induce of References Cited (P10-692)</li> <li>Induce of Draftperson's Patent Drawing Review (PT0-948)</li> </ol>	5. ☐ Notice of Into	rmal Patent Application		
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./M	Paper No./Mail Date 7. Examiner's Amendment/Comment		
Paper No./Mail Date  Examiner's Comment Regarding Requirement for Deposit	<u> </u>	tatement of Reasons for Allo	wana.	
of Biological Material	9. ⊠ Other <u>See Co</u>	·	OWALIOE .	
		MARK NA PRIMARY E	AVARRO EXAMINER	

Continuation of Attachment(s) 9. Other: copy of p 20 with SEQ ID NO inserted line 32.

Application/Control Number: 09/674,254

Art Unit: 1645

Examine's Amendment

Please see attached page 20 with hand written insertion of SEQ ID NO 3 at line 32.

8

Page 2

20

25

30

of infertile patients, the ebaf mRNA was detectable in the endometria of women on the post-ovulatory days 6-10 (Figure 2). The mRNA detected was primarily the 2.1 kb species. Additional smaller bands were also detected in a smaller number of patients (Figure 2). A high incidence of dysregulated ebaf mRNA expression, however, was identified women with endometriosis and with unexplained infertility (Table 3, Figure 2).

In contrast, endometrium obtained a normal fertile woman (egg donor) during the implantation window, exhibited a low level of ebaf mRNA expression (Figure 2, lane 21).

To localize ebaf protein in endometrial samples and samples of bodily fluids for similar purposes, invention provides methods whereby polyclonal antisera is raised against ebaf or a synthetic peptide provided by the invention, CASDGALVPRRLQHRP-amide (SEQ ID NO:3). antisera preferably are pooled and affinity purified on a column with the peptide bound. Similarly monoclonal antibodies could be used as is well known in the art.

Various forms of ebaf protein in endometrial samples, endometrial fluid and serum during the menstrual cycle can be detected. The size of the ebaf precursor protein is 41 However, ebaf protein contains three RXXR cleavage kD. sites which conform to the minimal requirement efficient processing by Furin, a ubiquitous prototypical mammalian kexin/subtilisin-like endoproteinase involved in the proteolytic processing of a variety of proteins including those within the ebaf super family. If all these sites are cleaved, then products of the molecular weights of 32.3, 25.7 and 12 kD proteins are expected to be secreted (Table 2). To detect such proteins in endometrial CASDGALVPRRLQHRP-amide (SEGTD NO:3) samples, fluids and serum the antisera is used. In endometrial samples the antisera detects ebaf bands at 55/60, 41, 31, 25 kD by Western blot